

IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF RHODE ISLAND

* * * * *	CIVIL ACTION
KAREN PETRO, ET AL	09-213
	*
VS.	MAY 17, 2011
	<u>VOLUME II</u>
TOWN OF WEST WARWICK,	*
ET AL	PROVIDENCE, RI
* * * * *	*

HEARD BEFORE THE HONORABLE WILLIAM E. SMITH  
DISTRICT JUDGE  
(Daubert Hearing)

**APPEARANCES:**

FOR THE PLAINTIFF:	STEPHEN P. SHEEHAN, ESQ. Wistow & Barylick, Inc. 61 Weybosset St. Providence, RI 02903
FOR THE DEFENDANT:	BRIAN J. CLIFFORD, ESQ. DeSisto Law 211 Angell St. Providence, RI 02906
Court Reporter:	Anne M. Clayton, RPR One Exchange Terrace Providence, RI 02903

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1 17 MAY 2011 -- 9:35 A.M.

2 THE COURT: Good morning. So we're here in  
3 Petro versus the Town of West Warwick, the continuation  
4 of the Daubert hearing.

5 So let's have you all identify yourselves for  
6 the record.

7 MR. SHEEHAN: Your Honor, it's Stephen Sheehan  
8 appearing for the Plaintiff.

9 MR. CLIFFORD: Brian Clifford appearing for the  
10 Defendant.

11 MR. SHEEHAN: Your Honor, may we have permission  
12 to approach?

13 THE COURT: Sure.

14 (Bench conference off the record.)

15 THE COURT: All right. Mr. Clifford, you may  
16 proceed.

17 MR. CLIFFORD: Thank you, your Honor.

18 At the outset of this hearing, it was my  
19 understanding that there were three issues for the  
20 Court to address. There's the issue of whether or not  
21 the signs of Excited Delirium is reliable for expert  
22 testimony; whether Drs. Wetli and Mash were qualified  
23 to offer testimony on Excited Delirium; and finally, as  
24 far as Dr. Wetli is concerned, in preparing his expert  
25 testimony, is there an analytical gap between the data

1       that he reviewed and the conclusions that he ultimately  
2       drew. And it's further my understanding that those  
3       first issues have been conceded by Mr. Sheehan and that  
4       what we're here today to address is that third issue of  
5       whether there's an analytical gap between the data that  
6       Dr. Wetli reviewed and the conclusion that he drew.

7               So with your Honor's permission, I'll call  
8       Dr. Wetli to the stand.

9               THE COURT: That's fine.

10              CHARLES WETLI, M.D., first having been duly  
11       sworn, testified as follows:

12              THE CLERK: Please state your name and spell  
13       your last name for the record.

14              THE WITNESS: I'm Dr. Charles Wetli, W-E-T-L-I.

15              THE COURT: Good morning, Dr. Wetli.

16              THE WITNESS: Good morning.

17              THE COURT: And welcome.

18              And you may inquire, Mr. Clifford.

19              MR. CLIFFORD: Thank you, your Honor.

20              DIRECT EXAMINATION BY MR. CLIFFORD

21       Q.     Dr. Wetli, if you could, please, could you explain  
22       your involvement with Excited Delirium?

23       A.     Back in the late 1970's, cocaine was considered to  
24       be a very safe recreational drug. And in Miami at that  
25       time, which was the crossroads of cocaine trafficking,

1 we were seeing people dying from the use of cocaine.

2 One of the cases I encountered was a person who  
3 was intoxicated with cocaine and exhibited very bizarre  
4 behavior, which a psychiatrist pointed out to me was  
5 what they called Excited Delirium or agitated delirium,  
6 which is the first time I had heard about this.

7 The psychiatrist was Dr. David Fishbain, and we  
8 actually wrote the case up and submitted it as a report  
9 to an emergency medicine journal. Over the next  
10 several years of about five years, after that, I began  
11 to see the same syndrome appearing in recreational  
12 cocaine users. The first case was a body packer, a  
13 person who swallowed condoms filled with cocaine from  
14 South America.

15 But as I began to see these same cases occurring  
16 in recreational cocaine users, they all had the same  
17 characteristics of behavior, all were associated with  
18 sudden death shortly after being restrained. I went  
19 back to Dr. Fishbain and said: To me these look the  
20 same, what do you think. And he concurred and that's  
21 when we reported the series of cases in the Journal of  
22 Forensic Sciences, I believe it was 1985.

23 Since then, I have been looking at  
24 cocaine-related deaths and in particular cases of  
25 Excited Delirium ever since that time.

1 Q. Is this involvement reflected in your CV?

2 A. It is reflected in my CV as far as the  
3 publications are concerned, not as far as the various  
4 cases that I have studied, testified on and so forth.

5 MR. CLIFFORD: Very well.

6 Your Honor, with your permission, I'd like to  
7 admit Dr. Wetli's CV.

8 MR. SHEEHAN: No objection.

9 THE COURT: All right. We'll make that Exhibit  
10 1.

11 (Defendant's Exhibit 1 admitted in full.)

12 Q. Dr. Wetli, what is the accepted methodology for  
13 determining the presence of Excited Delirium?

14 A. The diagnosis of Excited Delirium is based upon  
15 the behavior of the individual. It is a purely  
16 behavior diagnosis. It has certain other features  
17 associated with it, such as the various causes of  
18 Excited Delirium, but the syndrome itself is based on  
19 the behavior of the individual.

20 Q. What are some of those behaviors?

21 A. The behaviors, basically, the person is in fact  
22 delusional. They have -- it's a transient mental  
23 defect where they have lack of perception of the  
24 environment and inappropriate behavior with it. It is  
25 characterized by usually very violent behavior with

1 unexpected strength. It is frequently accompanied by  
2 hyperthermia. Many individuals have a propensity to  
3 smash glass objects such as mirrors and windows.  
4 Inappropriate disrobing is a frequent component of it.  
5 Frequently, profuse sweating.

6 Characteristically, they are completely  
7 impervious to any pain compliance techniques such as  
8 the use of electronic control devices, pepper sprays,  
9 baton strikes and what have you. And once they, in  
10 fact, are restrained, generally after a prolonged  
11 struggle, they will either recover from this in a  
12 hospital, generally within 24 hours, or they suddenly  
13 lose all vital signs within a few minutes after being  
14 restrained. If they are successfully resuscitated  
15 after their loss of vital signs, they invariably die  
16 within three to five days of the multi-organ failure.

17 **Q.** Are there any particular postmortem indications?

18 **A.** No. The autopsy itself is essentially negative.  
19 It's not a diagnosis of exclusion, as I said before.  
20 It is based upon the behavior of the individual. The  
21 autopsy findings in general are characteristically  
22 negative and do not show you a cause of death.

23 In other words, serious injury has been excluded  
24 such as a punctured lung or a puncture from part of a  
25 fractured rib, that type of thing has been excluded.

1 And likewise, an active significant disease process has  
2 also been excluded as a direct cause of death anyway.

3 Q. For the present case, what did you do to prepare  
4 your opinion?

5 A. Basically, I reviewed numerous documents. Did you  
6 want me to summarize these?

7 Q. If you will, please.

8 A. The investigative narrative reports of the West  
9 Warwick Police Department; investigative narrative of  
10 the Rhode Island State Police; medical/legal death  
11 investigator report by the Medical Examiner's Office;  
12 the autopsy report along with toxicology and chemistry  
13 reports done postmortem, including various notes and  
14 diagrams that were in the medical examiner case file;  
15 the Rhode Island State Police photographs of the scene  
16 and of Mr. Jackson at the hospital and at the autopsy;  
17 the medical examiner autopsy photographs; Plaintiff  
18 responses to request for production of documents; EMS  
19 ambulance run report; Kent Hospital Emergency  
20 Department record, which I believe also included the  
21 fire rescue unit response to Mr. Jackson.

22 I reviewed multiple psychiatric records,  
23 interview statements of numerous individuals. Did you  
24 want me to list these?

25 Q. No. That's sufficient, I think.



1       A.    And then depositions with exhibits of numerous  
2 individuals. Basically, how I -- materials I review to  
3 issue my report and come to my conclusions.

4       Q.    And what conclusions did you ultimately draw?

5       A.    That, basically, my analysis indicated Mr. Jackson  
6 had two processes going on. One was he had significant  
7 heart disease. His heart was significantly enlarged.  
8 He was an obese man, and he also had some fairly -- I  
9 think stenosis or narrowing of one of his major  
10 coronary arteries. This on top of a full stomach of  
11 one liter of material in his stomach at a time  
12 following a violent struggle would be very consistent  
13 with a sudden cardiac death.

14           He also had many of the signs and symptoms of  
15 Excited Delirium, the agitated behavior, the marked  
16 increase in strength, the being now impervious to pain  
17 compliance techniques, in this particular case the  
18 baton strikes as well as the application of pepper  
19 spray directly to the face, unintelligible muttering  
20 and lack of shall I say cooperation with the police in  
21 the sense that he did not seem to be responding to them  
22 appropriately. So all of these would be indicative of  
23 Excited Delirium.

24           If the death was due to sudden cardiac death  
25 basis of its own just because of the heart disease, I

1 would expect that his terminal heart rhythm would have  
2 been ventricular fibrillation. As forensic  
3 pathologists, we see ventricular fibrillation almost  
4 invariably as the result of primary cardiac disease,  
5 sudden death from a cardiac disease.

6 In cases of Excited Delirium, the death occurs  
7 shortly after being restrained, not during the time of  
8 the struggle but shortly after being restrained and the  
9 terminal rhythm is one of asystole, A-S-Y-S-T-O-L-E,  
10 which basically means there is no electrical or  
11 mechanical activity of the heart itself. It's just  
12 suddenly like flipping a switch and the heart comes to  
13 a sudden standstill, and that's what we had here.

14 So my conclusion is basically that Mr. Jackson  
15 died from the syndrome of Excited Delirium and that was  
16 due to his schizophrenia, his underlying mental  
17 illness, and he died with the heart disease but not  
18 because of it.

19 Q. Did Mr. Jackson have all of the signs and symptoms  
20 associated with Excited Delirium?

21 A. No, he did not.

22 Q. Could you explain why not.

23 A. There are two reasons. First of all, in any  
24 medical syndrome, not every person develops all the  
25 signs and symptoms of any disease process, whether it's

1       rheumatic fever, heart disease, no matter what. Not  
2       everybody has signs and symptoms, all the possible  
3       signs and symptoms that could be associated with the  
4       syndrome.

5               Secondly, in the case of Mr. Jackson, he was a  
6       little bit unusual in that the police were responding  
7       to an alleged incident of sign vandalization. They  
8       were not responding, as is more frequently the case, to  
9       a person who is exhibiting bizarre behavior and  
10      encountering a person in that situation. By bizarre  
11      behavior, I mean somebody who's totally naked, smashing  
12      windows, screaming and yelling through the  
13      neighborhood.

14             Police were called for that scenario versus the  
15      one with Mr. Jackson, where they saw somebody in an  
16      area where there was a suspicion of a crime being  
17      committed, they encountered Mr. Jackson and then the  
18      violence precipitated at that point, which meant that  
19      he did not have sufficient time during this particular  
20      scenario to develop more of the signs and symptoms that  
21      would be typical for Excited Delirium.

22      **Q.**     Okay.

23      **A.**     In other words, the police encountered Mr. Jackson  
24      at the very beginning of the syndrome as opposed to in  
25      the middle of it.

1 MR. CLIFFORD: Very well. Your Honor, I have  
2 nothing more.

3 THE COURT: I'm sorry?

4 MR. CLIFFORD: I have nothing more.

5 THE COURT: Thank you.

6 Mr. Sheehan.

7 MR. SHEEHAN: Your Honor, just to clarify the  
8 remarks by my brother at the beginning of his  
9 presentation, with respect to Dr. Wetli, there is no  
10 objection to either the scientific sufficiency of  
11 Excited Delirium as a diagnostic entity or his  
12 qualifications.

13 With respect to Dr. Mash, that second point of  
14 qualifications has not been waived by the Plaintiff.

15 THE COURT: Thank you.

16 **CROSS-EXAMINATION BY MR. SHEEHAN**

17 Q. Good morning, again, Doctor.

18 A. Good morning.

19 Q. How are you?

20 A. Good.

21 Q. Doctor, you're testifying today in your capacity  
22 as a forensic pathologist, correct?

23 A. Correct.

24 Q. And first and foremost, forensic pathologists are  
25 physicians. Do you agree with that?

1       A.    Yes.

2       Q.    The understanding of medicine is fundamental to  
3       the practice of forensic pathology.  Do you agree with  
4       that?

5       A.    Yes.

6       Q.    One of the fundamental tasks of a physician is  
7       diagnosis.  Do you agree with that?

8       A.    Correct.

9       Q.    Doctor, do you agree that a definition of  
10      "diagnosis" that is accurate is the determination of  
11      the nature of a case of disease?

12      A.    I'm sorry.  I don't understand your question.

13      Q.    Sure.  Doctor, you're familiar with Dorland's  
14      Medical Dictionary, are you not?

15      A.    Yes.

16           MR. SHEEHAN:  Your Honor, with the Court's  
17      permission, I'd like to give the witness a copy of my  
18      exhibit so I don't have to go back and forth.

19           THE COURT:  That's fine, yes.

20           MR. SHEEHAN:  Doctor, these are all numbered.

21      Q.    Referring to Exhibit 20, the excerpt from  
22      Dorland's Medical Dictionary, there's a definition of  
23      "diagnosis."  Do you see that?

24           MR. SHEEHAN:  May I approach, your Honor?

25           THE COURT:  Yes.

1       A.    Yes.

2       Q.    And the first two definitions are the  
3       determination of the nature of a case of disease, and  
4       the second is the art of distinguishing one disease  
5       from another. Have I read that correctly?

6       A.    Yes.

7       Q.    Do you agree with those definitions for diagnosis?

8       A.    I'm not sure what the first one means.  
9       Determination of the nature of a case of disease, I  
10      don't know what that means.

11      Q.    Okay. How about the second one, the art of  
12      distinguishing one disease from another?

13      A.    Yes.

14      Q.    Okay. Now, the primary method that physicians use  
15      to distinguish one disease from another is the  
16      differential diagnosis, correct, Doctor?

17      A.    Well, that doesn't distinguish it. That just  
18      lists the possibilities of the various things a person  
19      could have based upon the signs and symptoms that are  
20      known at that particular time. Usually, the  
21      differential diagnosis is made upon first examining the  
22      patient and then various things are eliminated or  
23      confirmed in the subsequent workup.

24      Q.    Sometimes physicians use the term "differential  
25      diagnosis" to encompass both the initial listing of the

1 diseases that are compatible with the signs and  
2 symptoms and the ensuing process of ruling in and  
3 ruling out; is that correct?

4 A. Exactly. That's the way the process works.

5 Q. Okay. So using differential diagnosis to  
6 encompass both those elements, first the listing and  
7 then the ruling out, you accept that is the primary  
8 method that physicians use to distinguish one disease  
9 from another?

10 A. Well, ruling out and ruling in. Both together.

11 Q. But the answer, therefore, is yes?

12 A. Yes.

13 Q. Okay. Now, you believe that Excited Delirium  
14 caused Mr. Jackson's heart to stop pumping?

15 A. Correct.

16 Q. You, therefore, believe that he suffered a cardiac  
17 arrest from Excited Delirium?

18 A. Correct.

19 Q. You are aware that the Medical Examiner's Office  
20 in Rhode Island conducted an autopsy of Mr. Jackson; is  
21 that correct?

22 A. Correct.

23 Q. And that was performed by a forensic pathologist  
24 by the name of Dr. Peter Gillespie, correct?

25 A. Correct.

1 Q. Now, you disagree with his opinion concerning the  
2 cause of death, correct?

3 A. Correct.

4 Q. His opinion was that Mr. Jackson died as the  
5 result of ischemic heart disease following the physical  
6 altercation, correct?

7 A. Correct.

8 Q. And the cause of death he gives is sudden death  
9 complicating ischemic heart disease following physical  
10 altercation with police in a schizophrenic person,  
11 correct?

12 A. Correct.

13 Q. And you disagree with that as the cause of death?

14 A. Correct.

15 Q. Now, he also classified his death as a homicide,  
16 correct?

17 A. Correct.

18 Q. And in this case, all homicide means is the taking  
19 of one's life by another?

20 A. Correct.

21 Q. Without raising the issue of whether that was  
22 justified or not?

23 A. Correct.

24 Q. So you understand that Dr. Gillespie's opinion is  
25 that Mark Jackson died from a sudden unexpected cardiac



1 death?

2 A. From cardiac disease, yes.

3 Q. From cardiac disease?

4 A. Correct.

5 Q. In other words, you and Dr. Gillespie both believe  
6 that he died from a cardiac arrest. You believe it was  
7 due to Excited Delirium; it's Dr. Gillespie's opinion  
8 that it was due from cardiac disease?

9 A. That's exactly right.

10 Q. Now, shall we use the term "sudden death from  
11 cardiac disease" to encompass that opinion I've just  
12 described for Dr. Gillespie and to differentiate it  
13 from your opinion?

14 A. Yes. Can I just clarify one thing? The mechanism  
15 of death would be virtually the same. In other words,  
16 the sudden cessation of cardiac function. It's the  
17 cause of death where we differ.

18 Q. Thank you. Many conditions can cause sudden  
19 cardiac death?

20 A. Correct.

21 Q. One of which is trauma?

22 A. Yes.

23 Q. And obviously, that's not involved here?

24 A. Correct.

25 Q. There are a number of non-traumatic causes of

1 sudden cardiac death, correct?

2 A. Correct.

3 Q. The largest category of those is due to primary  
4 cardiac disease?

5 A. Correct.

6 Q. And it's called "primary" because the cardiac  
7 arrest starts with a disease process in the heart or  
8 directly affecting the heart?

9 A. No. It's a disease process involving the heart  
10 itself. You have other disease processes outside the  
11 heart which can also affect the heart, but if you're  
12 saying "primary," by that you mean that it's a primary  
13 disease of the heart muscle or of the blood vessels or  
14 other structures inside the heart.

15 Q. Right. And you understand that Dr. Gillespie's  
16 opinion is that the cause of Mr. Jackson's sudden  
17 cardiac death was primary cardiac disease?

18 A. Correct.

19 Q. Now, there are also conditions outside the heart  
20 that can cause sudden cardiac death?

21 A. Sure.

22 Q. One of which is your opinion happened here,  
23 Excited Delirium?

24 A. Correct.

25 Q. And those are called secondary conditions?

1       A.    Correct.

2       Q.    Now, Doctor, you know that a great many people die  
3       every year from sudden cardiac arrest?

4       A.    That's very true.

5       Q.    Doctor, if you would just turn to Tab 23, which is  
6       an extract from the emergency medicine text by  
7       Dr. Rosen or rather edited by Dr. Rosen. And referring  
8       you to the page that's number 36 and there's a caption  
9       "Epidemiology." Do you see that?

10      A.    Yes.

11      Q.    In this paragraph, it's stated that of the two  
12      million annual non-traumatic deaths in the United  
13      States in 1992, 670,000 will occur suddenly. Do you  
14      see that?

15      A.    Yes.

16      Q.    And there's a statement: Of these, 500,000 will  
17      be attributed to cardiovascular disease and the  
18      remaining 170,000 to non-cardiac causes. Do you see  
19      that?

20      A.    Yes.

21      Q.    Do you have any reason to disagree with those  
22      figures, Doctor?

23      A.    No.

24      Q.    From the epidemiologic point of view?

25      A.    No, I see no reason to dispute it. That's

1       probably about right, just based on medical examiner  
2       experience.

3       Q.     Okay. Now, do you have a reliable estimate from  
4       the number of deaths each year from Excited Delirium  
5       syndrome?

6       A.     No.

7       Q.     Is it more than 200?

8       A.     I wouldn't have the faintest idea.

9       Q.     Doctor, is it less than 100?

10      A.     I don't know.

11      Q.     Would you agree that it is a small fraction of the  
12      total number of sudden cardiac deaths each year?

13      A.     Absolutely.

14      Q.     A very small fraction, Doctor?

15      A.     Correct.

16      Q.     Doctor, would you be surprised if there were a  
17      thousand deaths per year due to -- I'm sorry, a  
18      thousand deaths from sudden cardiac arrests per year  
19      due to primary cardiac disease for every one death to  
20      Excited Delirium Syndrome?

21      A.     That would not surprise me, no. I don't know  
22      where you get the figures for that, but I think what  
23      you're basically getting at is that Excited Delirium  
24      deaths are relatively unusual, and I would agree with  
25      that, yes.

1 Q. And sudden death from primary cardiac disease is  
2 extremely common?

3 A. Yes, it is.

4 Q. Doctor, in your report, which is at Tab 21, on  
5 page two -- I'll give you a moment, Doctor. I'd like  
6 to draw your attention to a paragraph.

7 A. Okay.

8 Q. There's a middle paragraph that starts  
9 "Mr. Jackson was obese"?

10 A. Correct.

11 Q. It states, quote: Mr. Jackson was obese, had an  
12 enlarged heart, significant coronary arteriosclerosis,  
13 had approximately one liter of food in his stomach and  
14 had been in a violent struggle shortly before he was  
15 found without vital signs.

16 Have I read that sentence correctly?

17 A. Yes, you have.

18 Q. Then the next sentence starts: Such a scenario,  
19 correct?

20 A. Yes.

21 Q. The scenario you're referring to is your prior  
22 sentence?

23 A. Correct.

24 Q. And you state: Such a scenario has all the  
25 ingredients for sudden unexpected cardiac death,

1 correct?

2 A. Correct.

3 Q. And that sentence, the phrase "sudden unexpected  
4 cardiac death," you're meaning to refer to sudden  
5 cardiac death due to primary cardiac disease?

6 A. That is correct.

7 Q. There's no question in your mind, Doctor, that  
8 obesity is a risk factor in an individual such as  
9 Mr. Jackson for sudden cardiac death from primary  
10 cardiac disease?

11 A. Correct.

12 Q. You note that he had an enlarged heart, correct?

13 A. Correct.

14 Q. The term for that is cardiomegaly?

15 A. Correct.

16 Q. And you note that Dr. Gillespie weighed the heart  
17 as 520 grams?

18 A. Correct.

19 Q. And you note the predicted normal for  
20 Mr. Jackson's height is 349 grams?

21 A. Correct.

22 Q. When you performed autopsies, Doctor, before your  
23 retirement from clinical forensic medicine, you used a  
24 table to determine what was the normal predicted heart  
25 weight for an individual?

1       A.    I still use that table, yes.

2       Q.    Okay.  You get it from the Mayo Clinic?

3       A.    Correct.

4       Q.    And that predicts normal based on the height of  
5       the individual?

6       A.    There are two tables.  One is the weight predicted  
7       for the height, and the other is predicted for the  
8       weight.  We generally use the one for the height  
9       because the weight would be artificially increased  
10      because obesity means your heart works harder and  
11      becomes enlarged secondary to obesity so it's a false  
12      number.

13      Q.    All right.  So you generally use the one based on  
14      height?

15      A.    Correct.

16      Q.    And using that, what we have here is Mr. Jackson's  
17      heart was 50 percent larger than normal?

18      A.    Correct.

19      Q.    You have written, Doctor, that sudden -- I'm  
20      sorry, that an enlarged heart increases the risk of  
21      sudden cardiac death from primary cardiac disease?

22      A.    Most definitely that's correct.

23      Q.    You're aware, Doctor, that the autopsy also found  
24      patchy fibrosis in the heart?

25      A.    Yes.

1 Q. And you know that that also increases the risk of  
2 sudden cardiac death from primary cardiac disease?

3 A. That's correct.

4 Q. You commented in response to my brother's  
5 questioning that Mr. Jackson had significant coronary  
6 arteriosclerosis in one coronary artery?

7 A. Correct.

8 Q. And that was a 75 percent stenosis, correct?

9 A. Correct.

10 Q. And in your discipline, that is accepted to  
11 constitute significant coronary arteriosclerosis?

12 A. Correct.

13 Q. Again, raising the risk for sudden cardiac death  
14 from primary cardiac disease?

15 A. That's correct.

16 Q. Now, you agree with Dr. Gillespie that, in fact,  
17 Mr. Jackson has ischemic heart disease?

18 A. Correct.

19 Q. And "ischemic" in this context means that the  
20 abnormalities in his heart could result in reduced  
21 blood flow under certain circumstances to vital organs,  
22 including the heart?

23 A. Yes.

24 Q. Now, referring back to Mr. -- I'm sorry,  
25 Dr. Gillespie's cause of death of ischemic heart



1 disease complicated by an altercation with the police,  
2 you, obviously, accept that there was an altercation  
3 with the police?

4 A. Yes.

5 Q. And you agree that such an altercation -- well,  
6 let me back up a bit.

7 You agree, in general, that physical exertion  
8 can provoke a heart attack in someone with ischemic  
9 heart disease?

10 A. Correct.

11 Q. And you believe there was sufficient physical  
12 exertion in this case to provoke Mr. Jackson's ischemic  
13 heart disease?

14 A. Correct.

15 Q. Leading him to die from sudden cardiac death due  
16 to that heart disease?

17 A. It's conceivable, yes.

18 Q. The risk factor of physical exertion for this type  
19 of death is present in this case?

20 A. Right.

21 Q. Now, your next sentence in your report states,  
22 quote: However, the expected rhythm for sudden cardiac  
23 death is ventricular fibrillation, not asystole as seen  
24 in this case.

25 Have I read that correctly?

1       A.    Yes.

2       Q.    What you're referring to there, Doctor, is the  
3       heart rhythm found when the EMS applied the automatic  
4       external defibrillator in the back parking lot at the  
5       West Warwick police station?

6       A.    Correct.

7       Q.    That's the first evidence of what Mr. Jackson's  
8       heart rhythm was, correct?

9       A.    Correct.

10      Q.    Now, I'd like you for the purpose of my next  
11      series of questions to assume something for me, Doctor.

12      A.    Okay.

13      Q.    I'd like you to assume that at that time that the  
14      AED had shown ventricular fibrillation. We know that's  
15      not true but I'd like you to assume it. Can you do  
16      that?

17      A.    Sure.

18      Q.    Doctor, in that case, you would have all of the  
19      risk factors for sudden unexpected cardiac death due to  
20      primary disease, correct?

21      A.    Correct.

22      Q.    You would have an autopsy that was positive and  
23      indeed conclusive for sudden unexpected cardiac death  
24      due to primary cardiac disease?

25      A.    Correct.

1 Q. It would be reasonable for the medical examiner to  
2 opine that the cause of death was ischemic heart  
3 disease in that situation?

4 A. Correct.

5 Q. And to express such an opinion to a reasonable  
6 degree of medical certainty?

7 A. Correct.

8 Q. Now, I'd like you to assume something different  
9 this time. Assume for the purposes of my next series  
10 of questions that we have no information whatsoever  
11 about what Mr. Jackson's heart rhythm was before he was  
12 pronounced dead. Do you understand that?

13 A. Yes.

14 Q. In other words, let's assume that the AED did not  
15 produce any information whatsoever, either because it  
16 wasn't there or it malfunctioned or for whatever  
17 reason. Are you following me?

18 A. Yes. In other words, no AED period.

19 Q. No AED and no other determination of what the  
20 heart rhythm was, okay?

21 A. Gotcha.

22 Q. Now, in that instance, we would still have an  
23 autopsy that's quite positive for sudden unexpected  
24 cardiac death due to primary cardiac disease, correct?

25 A. Correct.

1 Q. And in that situation, it would still be  
2 reasonable for the medical examiner to give an opinion  
3 that the cause of death was ischemic heart disease  
4 complicated by an altercation with the police?

5 A. Yes. That could well be, but then you'd have to  
6 go one step further and say that he died with Excited  
7 Delirium but not because of it, and you'd have to have  
8 some other basis for saying -- choosing one over the  
9 other.

10 Q. Doctor, a moment ago -- I understand.

11 One of the reasons why you believe that  
12 Mr. Jackson had Excited Delirium in this case was that  
13 you believe that the heart rhythm he had after he  
14 collapsed was asystole?

15 A. That's one of the reasons, yes.

16 Q. As opposed to ventricular fibrillation?

17 A. Correct.

18 Q. Doctor, is it your opinion to a reasonable degree  
19 of medical certainty that Mr. Jackson had Excited  
20 Delirium regardless of the fact of what his terminal  
21 heart rhythm was determined to be?

22 A. Yes.

23 Q. Now, in your report, Doctor, you state: Such a  
24 scenario has all the ingredients for sudden unexpected  
25 cardiac death. Correct?

1       A.    Correct. Referring to the prior sentence.

2       Q.    Right.

3       A.    Right.

4       Q.    And the prior sentence lists a number of different  
5 elements?

6       A.    Exactly.

7       Q.    None of them include a determination that his  
8 heart rhythm was ventricular fibrillation?

9       A.    Correct.

10      Q.    The scenario that you say has all the ingredients  
11 for sudden unexpected cardiac death is based upon  
12 obesity, enlarged heart, coronary arteriosclerosis, a  
13 liter of food in the stomach and a violent struggle  
14 shortly before he was found without vital signs?

15      A.    Correct.

16      Q.    You do not need to have a confirmed determination  
17 of a heart rhythm of V-fib for a medical examiner to  
18 conclude that the cause of death was ischemic heart  
19 disease?

20      A.    Correct.

21      Q.    In fact, if you have all the ingredients for  
22 sudden unexpected cardiac death, a medical examiner is  
23 entitled to rely upon those ingredients to reach a  
24 conclusion of cause of death due to ischemic heart  
25 disease even in the absence of evidence as to what the

1 final rhythm was, correct?

2 A. Mostly correct. It would depend upon the  
3 circumstances in which the person was found, but  
4 basically, for example, if I found he was found lying  
5 dead in his driveway, shoveling snow and there was no  
6 rescue response, for example, then, yes, you would be  
7 correct.

8 Q. Doctor, in your direct -- well, I'm going to  
9 withdraw that.

10 You understand that at some point after  
11 Mr. Jackson was placed in the back of Officer  
12 Lukowicz's patrol car, his heart stopped pumping and he  
13 became unconscious?

14 A. Correct.

15 Q. And it's your opinion that once the heart stops  
16 pumping blood, you have only about 13 seconds of  
17 consciousness?

18 A. Correct.

19 Q. And that's whether the heart stops pumping blood  
20 because the heart is in asystole or because the heart  
21 is in V-fib?

22 A. Correct.

23 Q. Either way?

24 A. Correct.

25 Q. Now, you know that Mr. Jackson was conscious when

1 he was put into the patrol car?

2 A. Correct.

3 Q. And that he was making noises and moving for at  
4 least the beginning of the ride to the station?

5 A. Correct.

6 Q. Both of which are some indicators of  
7 consciousness, making noises and moving?

8 A. Correct.

9 Q. You also know that he became completely silent,  
10 was making no noises and was not moving in that back  
11 seat?

12 A. Correct.

13 Q. You know that Officer Kelley, when they arrived at  
14 the station, looked in the back seat about six seconds  
15 after arrival?

16 A. Correct.

17 Q. And saw Mr. Jackson and that Mr. Jackson appeared  
18 unconscious to Officer Kelley?

19 A. Correct.

20 Q. Doctor, do you believe to a reasonable degree of  
21 medical certainty that Mr. Jackson was unconscious at  
22 some point in the back seat of Officer Lukowicz's  
23 patrol car?

24 A. Yes.

25 Q. And you believe that he never, thereafter,

1       regained consciousness?

2       A.     Correct.

3       Q.     Now, the usual way -- let me back up a bit.

4       Doctor, you used the term in response to the direct  
5       examination "terminal heart rhythm"?

6       A.     Correct.

7       Q.     By "terminal," you mean the heart rhythm at the  
8       point that the subject collapses?

9       A.     Right.

10      Q.     When people die, ultimately, usually their last  
11      rhythm is asystole, right?

12      A.     No. I think we're getting into some semantics  
13      here. Eventually, the heart is going to be in an  
14      asystole, that's true.

15      Q.     But by "terminal," you don't mean that, you don't  
16      mean the last act. You mean the point right when the  
17      individual collapses?

18      A.     Correct. What this is based on is studies that  
19      were done primarily in Miami and in Seattle where fire  
20      rescue units that were responding within a matter of  
21      just like a few minutes of somebody collapsing, using  
22      that particular rhythm when the rescue units were  
23      there. In the cases of Excited Delirium, rescue units  
24      are frequently already there for various other reasons  
25      and you get it within a matter of seconds. Other times



1       it's a matter of a couple of minutes. But these are  
2       the terminal rhythms we're talking about, not one that  
3       is taken hours later, for example, and obviously not  
4       one occurring immediately as a person loses  
5       consciousness because EKG pads are usually not on these  
6       people at that time.

7       Q.    Okay, Doctor. But I just want to confirm your use  
8       of "terminal" means that the Plaintiff collapsed?

9       A.    Correct. Or the first two minutes or so  
10       afterwards. That's what I was trying to convey.

11       Q.    Okay. Doctor, the usual way to determine the  
12       heart rhythm that caused the death is to look at the  
13       heart rate within the first minute after the person is  
14       unconscious, correct?

15       A.    Well, that would be ideal, but in the real world  
16       it's usually the first two or three minutes.

17       Q.    Doctor, I wasn't asking whether that would be  
18       ideal. I was asking whether that's the usual way. Do  
19       you disagree with that, the usual way to determine what  
20       heart rhythm caused the death?

21       A.    Yes.

22               MR. SHEEHAN: May I ask that the screens be  
23       turned on, your Honor.

24               THE COURT: Yes.

25       Q.    Doctor, you testified before?

1       A.    Correct.

2       Q.    And you testified in a case, rather gave a  
3       deposition in a case that I think went to trial in fact  
4       in the Northern District of California brought by a  
5       Plaintiff named Heston against the City of Salinas,  
6       correct?

7       A.    Correct.

8       Q.    Referring to page 128 from your deposition,  
9       Doctor -- first of all, does this appear to you to be  
10      your deposition?

11      A.    Yes.

12      Q.    No reason to dispute that, right?

13      A.    Correct.

14      Q.    On page 128, there's the question on line 6:

15            I asked earlier -- I'm sorry.

16            I earlier asked you whether based on the autopsy  
17      findings it was possible to determine if Mr. Heston  
18      went into ventricular fibrillation, and I think your  
19      answer was there was no way to tell. Is that correct?

20            Answer: Correct.

21            Have I read that correctly?

22      A.    I can't see it on here. I have pages 126 and 128.

23      Q.    I'm reading on page 128, line 6.

24      A.    Okay.

25      Q.    Line 6 through line 11.

1       A.    Correct.  I gotcha.  Okay.

2       Q.    I read that correctly?

3       A.    Correct.

4       Q.    And then there's down the bottom a rephrasing.

5                If someone were to opine in this case that  
6       direct electrical stimulation of the heart could not  
7       have caused ventricular fibrillation, there would be no  
8       way to prove that theory or that opinion, correct,  
9       because there's no evidence of ventricular  
10      fibrillation?

11             Have I read that correctly?

12      A.    Yes.

13      Q.    Then there's the answer.  And would you read that  
14      answer slowly into the record.

15      A.    Sure.  (Reading:)  Not only that, you not only  
16      have no evidence for it but I don't know the time frame  
17      from when he was cyanotic and the paramedics actually  
18      put the EKG monitor on him.  If more than several  
19      minutes has gone by, then the asystole means nothing.  
20      Usually, we look at the initial heart rhythm to  
21      determine within the first minute after the person  
22      collapses and then you can be sure of what the  
23      electrical rhythm was that terminated their life.

24      Q.    Now, in your deposition, you used the phrase  
25      "Usually we look at initial heart rhythm to determine

1 within the first minute after the person collapses,"  
2 right?

3 A. If that's possible, yes.

4 Q. No, no, Doctor. It's not possible that you used  
5 that phrase. You did use that phrase?

6 A. Yes, I did.

7 Q. And you were testifying under oath?

8 A. Correct.

9 Q. Were you testifying truthfully?

10 A. Of course.

11 Q. Was the answer "of course"? I didn't hear it.

12 A. Yes. Of course.

13 Q. Now, you are familiar with the work that has been  
14 done by Dr. Stratton and his colleagues in this area?

15 A. Yes.

16 Q. You rely on that work in your testimony from time  
17 to time?

18 A. I may have. I don't recall. I'm familiar with  
19 the work. I know I've quoted it in papers I've  
20 written, but I don't know if I've quoted it in the  
21 context of testimony. I may have. I just don't  
22 recall.

23 Q. You definitely have quoted it in the papers you've  
24 written in the learned literature.

25 A. Sure.

1 Q. Dr. Stratton wrote a paper to attempt to determine  
2 the terminal rhythm with Excited Delirium Syndrome?

3 A. Correct.

4 Q. Again, using "terminal" to mean the initial  
5 presenting rhythm after the collapse?

6 A. Correct.

7 Q. And if you turn to Tab 25, Doctor, have you found  
8 it?

9 A. Yes.

10 Q. This is Dr. Stratton's paper on that issue,  
11 correct?

12 A. Correct.

13 Q. And we have it up on the screen, at least the  
14 first page of it, correct?

15 A. Yes.

16 Q. And if you turn under "Methods," that's where he  
17 describes, rather Dr. Stratton and his colleagues  
18 describe the methods they used in their study?

19 A. Correct.

20 Q. And he states, and I've highlighted it: Cases of  
21 Excited Delirium with respiratory or cardiac arrest  
22 were entered onto the scene -- I'm sorry, onto the  
23 study if EMS paramedics witnessed the arrest at the  
24 scene.

25 Have I read that correctly?

1       A.    Yes.

2       Q.    What that means is that although he had data from  
3       a number of additional cases of individuals who had  
4       died from Excited Delirium Syndrome, he did not use  
5       that data, at least with respect to determining the  
6       terminal rhythm because there was no paramedics who  
7       witnessed the arrest at the scene, right?

8       A.    Correct.

9       Q.    And, Doctor, that limitation makes sense to you?

10      A.    Yes.

11      Q.    Doctor, in cases where the terminal rhythm  
12      disturbance is known, it's because paramedics checked  
13      the rhythm within 30 to 60 seconds of the person  
14      becoming cyanotic?

15      A.    That's in the study, yes.

16      Q.    You agree with that statement, whether it's in the  
17      study or not, Doctor?

18      A.    In this case, yes.

19      Q.    No, no. Doctor, I'm stating that as a matter of  
20      general fact that where the cases where the presenting  
21      rhythm disturbance or what you call the terminal rhythm  
22      is known it's because paramedics check the rhythm  
23      within 30 to 60 seconds of a person becoming cyanotic?

24      A.    In general, no, I would not say that's true at  
25      all.

1 Q. Okay.

2 A. Because it takes them longer to get to the victim.

3 Q. I didn't hear the back of your response.

4 A. It takes them longer to get to the victim. In a  
5 study such as this, they could narrow it down to within  
6 30 to 60 seconds. In the real world, when somebody  
7 collapses at home and the wife calls 911, paramedics  
8 usually cannot get there within 30 to 60 seconds. It's  
9 going to be usually a minute or two longer than that.

10 Q. Doctor, in many, many cases of sudden cardiac  
11 arrest, the presenting rhythm disturbance is never  
12 determined?

13 A. That's true.

14 Q. Because an attempt was made to determine the  
15 rhythm too late after the arrest or no attempt was made  
16 at all?

17 A. Correct.

18 Q. Doctor, turning to page 129 from your sworn  
19 testimony in the Heston case, the next question and  
20 answer after what we've read, I'd like to read the  
21 question and I'd like you to read the answer.

22 Question: In this case, there's no evidence of  
23 that, correct?

24 And by "that," you understand it means what the  
25 initial presenting rhythm was, right, Doctor?

1       A.    I don't recall the Heston case that well, but --

2       Q.    I mean, from the context you can see that the  
3       questioner's use of the word "that" is referring to  
4       what was the initial heart rhythm after the collapse.

5       A.    Okay.

6       Q.    Would you agree with that, Doctor?  I don't want  
7       to put words in your mouth.

8       A.    I believe that's correct, yes.

9       Q.    Would you read the answer.

10      A.    (Reading:)  Exactly.  I'm not sure of the time  
11      frame that's going on at that particular time, but  
12      usually in these cases the paramedics are already on  
13      the scene.  They are not called to the scene after the  
14      person turns cyanotic.  They're already on the scene  
15      and within 30 to 60 seconds you know what the rhythm  
16      is.  In that case, I don't think you have that in this  
17      case, therefore, it's impossible to be definitive about  
18      it.  As I said before, in cases of Excited Delirium  
19      almost invariably you see their -- it says PDA.  It  
20      should be PEA, or asystole -- PEA meaning pulses  
21      electrical activity.  But, again, in this particular  
22      case, we don't know for sure.

23      Q.    Doctor, in your answer, you did not refer to or  
24      rather limit your answer to scientific studies that  
25      have been published in the literature, did you?



1       A.    No.

2       Q.    When was Mr. Jackson noted to be cyanotic?

3       A.    I believe when he was taken out of the police car.

4       Q.    His lips were blue, right?

5       A.    Right.

6       Q.    That's indicative of a central cyanosis, right,  
7       Doctor?

8       A.    I don't know what you mean by central cyanosis.  
9       It is cyanosis in the fact that his lips are blue.

10      Q.    You don't know what the term "central cyanosis"  
11      means, Doctor?

12      A.    Never heard that before.

13      Q.    Okay. Do you understand that there's peripheral  
14      cyanosis and a central cyanosis and they can be caused  
15      by different things?

16      A.    No, I do not.

17      Q.    Now, you know from your review of the record that  
18      from the moment that Mr. Jackson was observed in the  
19      back lot, it was noted that his lips were bluish?

20      A.    Correct.

21      Q.    He was already cyanotic?

22      A.    Correct.

23           MR. SHEEHAN: Your Honor, with the Court's  
24      permission, I'd like to play the video from the back  
25      lot, which is Exhibit 26, I believe.

1 THE COURT: Okay.

2 MR. CLIFFORD: No objection, your Honor.

3 THE COURT: Very good. Let's do that.

4 MR. SHEEHAN: And as a preface, what we have,  
5 your Honor, and it's on the screen already, it's going  
6 to have a counter that's going to come on -- and  
7 Doctor, I'd appreciate your attention also -- at the  
8 point that the squad cars stopped. And I can represent  
9 to the Court, I believe, without objection that those  
10 are the squad cars that contained Mr. Jackson. We're  
11 going to see that as they pull him out. But a counter  
12 is going to appear in the top left corner, and I want  
13 to use that counter to determine time intervals.

14 THE COURT: So are you going to be stopping the  
15 video in order to direct attention to that counter, or  
16 are you just going to let it play all the way through?

17 MR. SHEEHAN: I'm going to let it run from the  
18 point that the counter starts, which is when the squad  
19 cars arrive, up to the point that the AED is attempted,  
20 and I'd like to determine that interval.

21 THE COURT: So this video begins when the squad  
22 cars arrive?

23 MR. SHEEHAN: Correct.

24 THE COURT: Okay.

25 MR. SHEEHAN: And I am going to ask it be

1 stopped once in the middle, and that is at the point  
2 that he's taken out of the car. So there's going to be  
3 point of arrival, which is zero seconds, then there's  
4 going to be when he's taken out of the squad car, and  
5 the time will be on the screen, and then there's the  
6 time the AED is applied. Proceed?

7 THE COURT: Yes.

8 (Video played.)

9 Q. Two minutes, can we agree, he's taken out of the  
10 car?

11 A. Yes.

12 (Video played.)

13 Q. Doctor, can we agree that at five minutes and 30  
14 seconds the AED is applied?

15 A. Yes.

16 Q. And that's the point that there was a  
17 determination made concerning what Mr. Jackson's heart  
18 rhythm was for the first time?

19 A. Correct.

20 Q. In your report, you state that the expected heart  
21 rhythm for sudden unexpected cardiac death due to  
22 ischemic heart disease is ventricular fibrillation?

23 A. Correct.

24 Q. In V-fib, the heart has electrical charges  
25 fluttering through it, correct?

1       A.    Correct.

2       Q.    But it is not pumping?

3       A.    Correct.

4       Q.    And AED is designed to deliver an electrical shock  
5       to stop the heart and then the heart will be restarted?

6       A.    Correct.

7       Q.    And obviously, if you're already in asystole, that  
8       means there are no electrical charges in the heart,  
9       there's nothing to stop?

10      A.    Correct.

11      Q.    So the AED doesn't work with asystole?

12      A.    Correct.

13      Q.    It's designed to work with V-fib?

14      A.    Correct.

15      Q.    The purpose of the shock is to defibrillate by  
16      stopping the heart and with CPR restarting it in a  
17      normal sinus rhythm, correct?

18      A.    Correct.

19      Q.    That's usually what happens with V-fib?

20      A.    Hopefully, that's what happens, yes.

21      Q.    That's usually what happens with V-fib?

22      A.    I don't know if it's usually what happens. That's  
23      what you hope happens.

24      Q.    Doctor, referring to your testimony in Heston  
25      again, page 130, the part I've highlighted states,

1       quote: But skipping all that, ventricular fibrillation  
2       is better because you can defibrillate them and cause  
3       the heart to come to a standstill and then start it  
4       again. That's usually what happens.

5               That's your testimony, isn't it, Doctor? Have I  
6       read that correctly? Have I read that correctly?

7       A. You read it correctly but that's misleading.

8       Q. Thank you.

9               THE COURT: Mr. Sheehan, you need to put that in  
10      context with the question.

11              MR. SHEEHAN: Sure.

12      Q. Doctor, you were asked --

13              THE COURT: Would you just read the question in  
14      and then if you want to abbreviate the answer or you  
15      can put the -- you should probably put the whole answer  
16      in. I think that would be best.

17      Q. Doctor, I'm going to read the question. Would you  
18      read the answer, please.

19              Question: It is more difficult to gain a sinus  
20      rhythm from someone who is in asystole versus  
21      ventricular fibrillation?

22      A. (Reading:) Generally speaking, it's easier from  
23      ventricular fibrillation if it's a healthy individual  
24      to begin with. The asystole, when people die with  
25      asystole -- again it should be PEA not PDA -- it's my

1 understanding that their chances of survival are very,  
2 very slim unless it's in an operating room, for  
3 example. Skipping all that, ventricular fibrillation  
4 is better because you -- and then I ran out of space.

5 THE COURT: You need to move it up.

6 A. (Reading:) Skipping all that, ventricular  
7 fibrillation is better because you can defibrillate  
8 them and cause the heart to come to a standstill and  
9 then start it again. That's usually what happens. In  
10 fact, CPR was begun, the whole concept came about  
11 because of young men who were getting electrocuted and  
12 dying and the idea was to defibrillate them and start  
13 their hearts again.

14 Q. Just confirming, that's the end of the answer,  
15 right, Doctor?

16 A. Correct.

17 Q. Now, in an individual who is experiencing a  
18 cardiac arrest due to primary cardiac disease whose  
19 initial presenting rhythm is V-fib, there's no  
20 circulation being provided to the brain?

21 A. Correct.

22 Q. What usually happens if there's no intervention  
23 for such an individual is that the heart will stop  
24 beating entirely?

25 A. Correct. Well, the heart will come to a

1       standstill entirely, electrical standstill entirely.

2       Q.    It will come to an electrical standstill entirely?

3       A.    Correct.

4       Q.    In other words, it will go from V-fib to asystole?

5       A.    Correct.

6       Q.    In other words, the condition of the patient will  
7       deteriorate through V-fib into asystole?

8       A.    Correct.

9       Q.    For that reason, if more than several minutes have  
10       gone by from the heart stopping pumping until the  
11       paramedics place the EKG on a patient, the fact that  
12       the EKG then shows asystole means nothing?

13      A.    Correct.

14      Q.    Now, in this case, we know that more than five  
15       minutes and 30 seconds passed?

16      A.    Correct.

17      Q.    Because you've already testified in your opinion  
18       he was unconscious in the squad car?

19      A.    Correct.

20      Q.    And by the way, Doctor, the unconsciousness comes  
21       after the cardiac arrest?

22      A.    Right.

23               THE WITNESS:   Excuse me.   Can we take a break  
24       for five minutes?

25               THE COURT:   Yes, we can.   We'll take a short

1 break, reconvene in about five, ten minutes.

2 (Recess.)

3 Q. Just before we took the break, you were testifying  
4 that the temporal sequence of cardiac arrest is that  
5 the heart stops, then within say 13 seconds or so, the  
6 individual becomes unconscious and very quickly  
7 thereafter becomes cyanotic?

8 A. Correct.

9 Q. Now, in your opinion, Mr. Jackson was already  
10 unconscious in Officer Lukowicz's patrol car?

11 A. Correct.

12 Q. And you relate that opinion to Officer Lukowicz's  
13 account that he became completely silent and there was  
14 no noise?

15 A. Correct.

16 Q. And Officer Lukowicz testified that happened at  
17 some point along the midpoint of the ride back to the  
18 station, do you recall that?

19 A. Yes.

20 Q. And he said that it takes at most a minute or two  
21 to get from the location at the parking lot for Joyal's  
22 Liquors to the station, do you recall that?

23 A. Yes.

24 Q. So it's reasonable under those facts to assume  
25 that Mr. Jackson was unconscious for somewhere in the



1 area of 30 seconds to a minute before they arrived at  
2 the station?

3 A. Correct.

4 Q. And that preceded by that is at least 13 seconds  
5 of heart stop but still conscious?

6 A. Right.

7 Q. So we can push the point of cardiac arrest back to  
8 about 45 seconds prior to arrival at the station, if  
9 not longer?

10 A. It's conceivable, yes.

11 Q. Well, that's reasonable under these facts?

12 A. Right.

13 Q. That's the best scenario under these facts, right?

14 A. Right.

15 Q. And with that scenario, it would be six minutes  
16 and 15 seconds from the cardiac arrest to the point in  
17 time the AED was applied?

18 A. Correct.

19 Q. At a minimum?

20 A. Correct.

21 Q. That's more than several minutes, Doctor?

22 A. Pardon?

23 Q. That's more than several minutes?

24 A. Well, I'd say several minutes. I'm not sure how  
25 you define "several." To me, it's more than three or

1 four.

2 Q. That's certainly more than three or four, Doctor?

3 A. Right.

4 Q. And Doctor, you've testified that if an individual  
5 goes without breathing for two to four minutes, you  
6 would expect to have some degree of permanent injury?

7 A. Correct.

8 Q. And if an individual goes without breathing for  
9 more than four minutes, you expect in most cases he's  
10 going to die?

11 A. Correct.

12 Q. And that's whether he starts in V-fib or asystole?

13 A. Right.

14 Q. It's simply oxygen deprivation resulting in  
15 hypoxia, anoxia and death?

16 A. Correct.

17 Q. Doctor, you would agree that the finding of  
18 asystole when the AED was applied in this case does not  
19 rule out that Mr. Jackson was in V-fib as the initial  
20 presenting rhythm, correct, because of the time period  
21 that went by?

22 A. You can't completely exclude it, no. The problem  
23 you have is that you don't know how long a person can  
24 remain in V-fib before they actually go into asystole.  
25 The time frame is more characteristic of real life

1 scenarios that I see in sudden cardiac death where you  
2 don't have somebody within 30 seconds or a minute  
3 applying the AED. It usually is several minutes from  
4 the time that rescue gets the call, by the time they  
5 get there and they find the person in V-fib. Having  
6 said that, we don't know how long it takes once a  
7 person is in ventricular fibrillation to actually then  
8 eventually go into asystole.

9 Q. Doctor, hasn't the American Heart Association  
10 published how long it takes to go from V-fib to  
11 asystole?

12 A. I have no idea.

13 Q. That's not within your area of expertise, Doctor,  
14 correct?

15 A. No, it's not.

16 Q. And you don't know whether that's four minutes or  
17 not?

18 A. I have no idea. I'm not sure how you would figure  
19 it out, either.

20 Q. Now, Doctor, the chances of resuscitation are much  
21 better if the individual is found in V-fib than in  
22 asystole?

23 A. Correct. Sorry. But to qualify, like I said in  
24 my deposition, it has been, provided a person has a  
25 normal cardiovascular status.

1 Q. Individuals pay a heavy price for deteriorating  
2 through V-fib into asystole?

3 A. Correct.

4 Q. In that they cannot be brought back by AED?

5 A. Correct.

6 Q. Now, Doctor, you testified in the direct that with  
7 Excited Delirium Syndrome, there's no anatomic cause of  
8 death noted on autopsy?

9 A. Correct.

10 Q. In other words, there are no abnormal findings on  
11 autopsy attributable to Excited Delirium?

12 A. Correct.

13 Q. In this particular case, obviously, for  
14 Mr. Jackson's autopsy, you would agree that there were  
15 no abnormal findings indicative of Excited Delirium  
16 Syndrome, right?

17 A. There are none.

18 Q. There are none, in general or in this case?

19 A. Always.

20 Q. Right. Now, you're familiar with Vincent DiMaio's  
21 book on Excited Delirium?

22 A. Right.

23 Q. Dr. DiMaio, I should say. And you believe it's a  
24 very good account of the history and mechanism of  
25 Excited Delirium?

1       A.    Pretty much, yes.  There are a few things in the  
2       book I disagree with but, in general, yes, it's a good  
3       book.

4       Q.    You certainly respect Dr. DiMaio on the issue of  
5       Excited Delirium?

6       A.    Of course.

7       Q.    And you're aware it's Dr. DiMaio's opinion that  
8       the diagnosis of Excited Delirium as a cause of death  
9       is a diagnosis of exclusion?

10      A.    I don't recall, but I disagree with that one  
11      hundred percent.

12      Q.    Fine.  But before we get to whether you disagree  
13      with it or not, my question was are you aware that it  
14      is his opinion that a diagnosis of ED as a cause of  
15      death is a diagnosis of exclusion?

16      A.    I know he said that, yes.

17      Q.    In fact, you agree with that opinion in the sense  
18      that a pathologist confronted with a possible case of  
19      Excited Delirium must exclude sudden death from natural  
20      disease process and exclude sudden death from trauma?

21      A.    Correct.

22      Q.    You agree that one of the criteria for a  
23      pathologist to give Excited Delirium Syndrome as a  
24      cause of death is that the pathologist must have a  
25      negative autopsy?

1       A.    No.  You must exclude trauma and you must exclude  
2       natural disease processes as a cause of death.  In that  
3       sense, you have a negative autopsy but you can have a  
4       natural disease process and die with Excited Delirium  
5       with the disease process but not because of a disease  
6       process.

7       Q.    Doctor, let's be clear.  "Negative" means that the  
8       autopsy reveals no disease process or injury that  
9       independently could account for the death of the  
10      individual?

11      A.    Correct.

12      Q.    Okay.  Now, here we had a positive autopsy  
13      suggestive of sudden unexpected cardiac disease from  
14      primary cardiac disease?

15      A.    Correct.

16      Q.    I'm sorry.  Sudden unexpected cardiac death.  If I  
17      may correct myself.

18      A.    Correct.

19      Q.    In other cases of suspected Excited Delirium that  
20      you're aware of, postmortem brain samples have been  
21      taken from the autopsy and analyzed at Dr. Mash's lab  
22      in Florida?

23      A.    Correct.

24      Q.    And the results of that analysis provides  
25      supportive objective evidence to validate or rule out a

1 finding of Excited Delirium?

2 A. Right.

3 Q. It is not required for a pathologist such as  
4 Dr. Gillespie to take postmortem brain samples and send  
5 them to Dr. Mash if the autopsy showed positive  
6 evidence suggestive of sudden unexpected death due to  
7 heart disease?

8 A. I would disagree with that.

9 Q. So you fault Dr. Gillespie in this case for not  
10 taking brain tissue from Mr. Jackson?

11 A. Not exactly.

12 Q. I asked you was it required, and you said you  
13 would disagree with that.

14 A. No. I was disagreeing with other statements  
15 you've made. Was it required? No, it's never  
16 required, no. But not considering Excited Delirium in  
17 the differential I think is a mistake.

18 Q. Doctor, my question is quite simple. You do not  
19 believe that it was required for Dr. Gillespie in this  
20 case to take postmortem brain samples and send them to  
21 Dr. Mash?

22 A. No. It's not required, no.

23 Q. And absent analysis of such brain samples, the  
24 diagnosis of EDS is based solely on the pathologist's  
25 evaluation of reported observations of behavior?

1       A.    Of course.

2       Q.    That's why you say Excited Delirium Syndrome is  
3 diagnosed on behavior?

4       A.    Correct.

5       Q.    The pathologist isn't there, obviously?

6       A.    Correct.

7       Q.    Has to rely on observations of witnesses?

8       A.    Correct.

9       Q.    If witnesses are police, they have a bias, which  
10 is to exaggerate how violent the suspect was to justify  
11 their response?

12           MR. CLIFFORD: Your Honor, I object.

13           THE COURT: Grounds?

14           MR. CLIFFORD: I'm not sure the Doctor is expert  
15 to testify on the biases of police.

16           THE COURT: Well, he just asked him if there's a  
17 bias so I'm going to allow it. It's legitimate  
18 cross-examination. Go ahead.

19       A.    Could you repeat the question, please.

20       Q.    Sure. If the witness that's providing the  
21 information about the behavior of the suspect is the  
22 police, they have a potential bias, which is they want  
23 to vindicate their own behavior in the event?

24           THE COURT: Well, I'm not going to allow that.  
25 That wasn't your question.



1           MR. SHEEHAN: I didn't mean to change it, your  
2 Honor. I frankly didn't.

3           THE COURT: At least I didn't understand that to  
4 be what you were asking. I thought you were asking  
5 that if a witness has a bias, then that is reflected in  
6 the information that is conveyed, but he cannot testify  
7 as to whether police officers have a bias or not.

8           So if that's what you objected to, I sustain  
9 your objection.

10          MR. CLIFFORD: Thank you, your Honor.

11          Q. Just for the record, you've testified in probably  
12 a thousand cases where your testimony depended in part  
13 on the testimony of police, right?

14          A. Absolutely. Sure.

15          Q. And you're quite familiar with the factors that go  
16 into evaluating testimony of police in a courtroom?

17          A. No. Not in a courtroom. I evaluate what any  
18 witness, including police will tell me based on the  
19 autopsy findings and everything else I know about the  
20 case. Sometimes police, like anybody else, are  
21 truthful; sometimes they exaggerate; sometimes they  
22 underestimate. You have to evaluate -- there's no  
23 difference with lay witnesses or police as far as I'm  
24 concerned.

25          Q. Now, different pathologists may take the same

1 behavioral history and reach different conclusions as  
2 to whether or not that history justifies a diagnosis of  
3 Excited Delirium?

4 A. That's true.

5 Q. There has been no research whatsoever done to  
6 validate a pathologist's diagnosis of Excited Delirium  
7 either as to the accuracy of the diagnosis, the  
8 sensitivity of the diagnosis or the specificity of the  
9 diagnosis, correct?

10 A. I don't know that.

11 Q. Certainly, you're not aware of any?

12 A. Correct. I don't know if anybody's done any  
13 study, surveys of pathologists and their diagnosis of  
14 Excited Delirium, which I think is what you're getting  
15 at. I don't know of any study like that.

16 Q. As far as you know, it's never been determined the  
17 extent to which different medical examiners would  
18 diagnose Excited Delirium on the same set of facts?

19 A. Right.

20 Q. As far as you know, the mechanism of death for  
21 Excited Delirium has not been scientifically studied?

22 A. Correct.

23 MR. CLIFFORD: Your Honor, I object on the  
24 grounds that I think this hearing was designed not to  
25 try the credibility of Excited Delirium but to address

1 the analysis of Dr. Wetli.

2 THE COURT: Well, Mr. Sheehan, I think that's  
3 correct, but do you want to respond to that?

4 MR. SHEEHAN: I'm moving on, your Honor. I  
5 don't need to belabor that issue.

6 THE COURT: Okay. Go ahead.

7 Q. Doctor, there are two fundamental diagnostic  
8 criteria for Excited Delirium that subjects must have.  
9 They must have agitation and delirium, correct?

10 A. Correct.

11 Q. When determining Excited Delirium as a cause of  
12 death, the pathologist is expected to determine what  
13 caused the Excited Delirium?

14 A. Correct.

15 Q. Because Excited Delirium is caused by something?

16 A. Correct.

17 Q. With cocaine, it's caused by the intoxicating  
18 effects of the cocaine?

19 A. Essentially, yes.

20 Q. It's your opinion that Mark Jackson died from  
21 Excited Delirium caused by untreated schizophrenia?

22 A. Right.

23 Q. By untreated, you refer to the fact that although  
24 he was prescribed medication many years ago, there's no  
25 evidence that he took it?

1       A.    Right.  And the toxicology was negative.

2       Q.    Negative for medication?

3       A.    Correct.

4       Q.    So it's your opinion that his delirium was caused  
5       by schizophrenia, not medication or withdrawal from  
6       medication?

7       A.    Correct.

8       Q.    Doctor, delirium is a psychiatric disorder,  
9       correct?

10      A.    Correct.

11      Q.    It's specified and spelled out in the DSM,  
12      correct?

13      A.    Correct.

14      Q.    The DSM is a diagnostic tool in psychiatry?

15      A.    Correct.

16      Q.    Excited Delirium is a psychiatric diagnosis?

17      A.    Correct.

18      Q.    You are aware that according to the DSM, the  
19      primary or rather predominant disturbance of delirium  
20      is a clinically significant deficit in organization  
21      that represents a significant change from a previous  
22      level of functioning?

23      A.    Correct.

24      Q.    You are aware that the DSM defines delirium as  
25      having a disturbance of consciousness manifested by a

1 reduced awareness of environment, a change in cognition  
2 and takes place over a short period of time, usually  
3 hours to days?

4 A. Correct.

5 Q. You also know that according to the DSM the  
6 diagnosis of delirium can only be used if the cause of  
7 the delirium is either a general medical condition, a  
8 drug or a toxin?

9 A. Okay.

10 Q. Correct?

11 A. Yes. Whatever you mean by general medical  
12 condition. I would presume it would also mean  
13 schizophrenia.

14 Q. Doctor, general medical conditions are not mental  
15 disorders, are they?

16 A. As far as I'm concerned, they are.

17 Q. In the DSM by definition, general medical  
18 conditions are not mental disorders?

19 A. You're ignoring the cases where they have  
20 schizophrenia.

21 Q. So let's just first clarify. You agree that in  
22 the DSM general medical conditions are not mental  
23 disorders, but you're rejecting the DSM in this context  
24 with respect to schizophrenia?

25 A. One thing I consider general medical disorder as

1 including schizophrenia. You're telling me that it's  
2 in the DSM that in psychiatry it is not, so I'll take  
3 your word for that. But then if that's the case, then  
4 you cannot have delirium with schizophrenia and that  
5 doesn't make any sense whatsoever. We see it.

6 Q. Now, Doctor, in fact, in this case you believe  
7 that Mr. Jackson's Excited Delirium was caused by  
8 schizophrenia?

9 A. Correct.

10 Q. You're not an expert on schizophrenia?

11 A. No, of course not.

12 Q. Doctor, in your report, you list the various  
13 things that you read at the time you wrote your report,  
14 or rather reviewed, correct?

15 A. Correct.

16 Q. You don't review there the video that we just  
17 showed, correct?

18 A. No, I did not see the video. I had seen -- I have  
19 photographs -- wait a minute.

20 Q. So at the time you wrote your report, you had not  
21 seen the video, right, Doctor?

22 A. I don't recall it, no. No, I didn't --

23 Q. Now, Doctor --

24 A. I'm sorry. I'm trying to answer your question.

25 Q. I beg your pardon.

1       A.    I had two CDs of photographs, but I did not have a  
2       DVD of the scene that you just showed me.

3       Q.    Okay.  At the time you wrote your report?

4       A.    Correct.

5       Q.    And subsequently, Doctor, when did you first see  
6       the video?

7       A.    Just now.

8       Q.    So up to today in this courtroom, you had not seen  
9       that video?

10      A.    Correct.

11      Q.    Up to today in this courtroom, you did not know  
12      the time interval shown on the video between when  
13      Mr. Jackson arrived at the back lot and when the AED  
14      was applied?

15      A.    Correct.

16      Q.    Have you read Dr. Pinals' report in this case,  
17      Debra Pinals, a psychiatrist?

18      A.    Yes.

19      Q.    Do you dispute that she's an expert on  
20      schizophrenia?

21      A.    No.

22      Q.    Doctor, do you know if there are different types  
23      of schizophrenia?

24      A.    Yes, there are.

25      Q.    What are the types?

1       A.    I have no idea.  I just know undifferentiated  
2       paranoid.  There are several other types.  I don't know  
3       what they are.  I don't classify them.  I'm not a  
4       psychiatrist.

5       Q.    Do you know what type Mr. Jackson was?

6       A.    No.

7       Q.    Do you know what types of schizophrenia are  
8       associated with Excited Delirium?

9       A.    No.

10      Q.    Now, are you aware that schizophrenia can exist in  
11      a chronic, relatively steady state in an individual?

12      A.    Sure.

13      Q.    Or it can exist in an acutely psychotic state?

14      A.    Exactly.

15      Q.    And you understand that Excited Delirium is  
16      associated with schizophrenia in the acutely psychotic  
17      state, right?

18      A.    I don't know that.  I do know that I've seen cases  
19      of Excited Delirium with schizophrenia where they are  
20      smoldering along untreated or undiagnosed for a period  
21      of time and then they have that psychotic break which  
22      we associate with -- you know, they have manifestations  
23      of Excited Delirium.  They don't necessary have any  
24      agitated psychotic state or acute psychotic state  
25      before getting into Excited Delirium, I have not made



1       that association, no.

2       **Q.**     Doctor, let me ask you this. Is it your opinion  
3       that the cases of schizophrenia associated with Excited  
4       Delirium are not limited to cases that involved an  
5       acutely psychotic state?

6       **A.**     No. As I said, the cases that I recall seeing are  
7       generally individuals who have a history of  
8       schizophrenia which is untreated or undiagnosed, and  
9       then the manifestation of Excited Delirium becomes  
10      apparent but not necessarily in an acute psychotic  
11      state prior to the development of Excited Delirium.  
12      I've seen that happen, but that's not always the case.

13      **Q.**     In those examples, the Excited Delirium and the  
14      acute psychotic state are contemporaneous, concurrent?

15      **A.**     Yes. They frequently are, yes.

16      **Q.**     So it's been your experience that, in fact,  
17      Excited Delirium is associated in schizophrenia with  
18      individuals that were either in an acute psychotic  
19      state before the Excited Delirium or entered into a  
20      psychotic state in connection with the Excited  
21      Delirium, right?

22      **A.**     Yes. That's true.

23      **Q.**     Now, another term for Excited Delirium used in the  
24      literature is acute exhaustive mania, correct?

25      **A.**     Yes.

1 Q. And you know of no history involving Mr. Jackson  
2 of mania, correct?

3 A. Correct.

4 Q. You agree that the pathologists should consider  
5 the medical and psychosocial history of the decedent as  
6 part of the forensic pathology investigation?

7 A. Of course.

8 Q. And in Mr. Jackson's case, you know that he had no  
9 prior history of either mania, violence, paranoia or  
10 prior episodes of Excited Delirium?

11 A. Correct.

12 Q. Doctor, you agree that in Excited Delirium the  
13 Excited Delirium precedes and is not precipitated by  
14 the encounter with the police?

15 A. That's not always true.

16 Q. Doctor, you testified at trial in Tennessee in the  
17 case of Bud Lee versus Metropolitan Government of  
18 Nashville, correct?

19 A. Correct.

20 Q. And Doctor, I'm putting on the screen the  
21 transcript at page 2350 where you are sworn. Do you  
22 see that?

23 A. Yes.

24 Q. And then if we continue to page 2401, the answer  
25 at line -- I'm sorry, the question at line 21 is:

1       Okay --

2       A.    I can't see it on the screen.

3       Q.    I beg your pardon, Doctor, and I appreciate your  
4       pointing that out to me. I've got to figure that out a  
5       little bit better.

6               The question is: Okay. So you had no evidence  
7       that he had Excited Delirium at the time he was  
8       sprayed?

9               And then if you would just read your answer, it  
10      goes on to the next page.

11      A.    (Reading:) Well, except when you look back at the  
12      whole episode and so forth, you'd know that he had  
13      Excited Delirium at that time. He wasn't having any  
14      outward manifestations of it. The encounter with the  
15      police does not precipitate Excited Delirium. Excited  
16      Delirium is precipitated by the drug.

17      Q.    So the statement in your testimony is that the  
18      encounter with the police does not precipitate the  
19      Excited Delirium, correct?

20      A.    In this case, that's true. Only in this case. I  
21      was referring specifically to this case, the Lee case,  
22      not as a general statement for all the cases of Excited  
23      Delirium.

24      Q.    Doctor, as a matter of the general statement, the  
25      biochemical process that creates Excited Delirium

1 begins before the interaction with the police, correct?

2 A. In this particular case --

3 Q. No, no. Doctor, as a general case, as a point of  
4 science, the biochemical process that causes Excited  
5 Delirium begins before the interaction with the police?

6 A. In general, that's true, but there are exceptions.  
7 I've seen them.

8 Q. Doctor, in your testimony in the Lee case, you  
9 don't refer to any exceptions?

10 A. I was referring only to the Lee case.

11 Q. And in your answer, Doctor, if you were just  
12 referring to the Lee case, you could have said in this  
13 case, the encounter with the police does not  
14 precipitate the Excited Delirium, correct?

15 A. I could have said that, but we were talking about  
16 the Lee case during the trial, that's what I was  
17 referring to. I wasn't giving a lecture on Excited  
18 Delirium.

19 Q. Doctor, one of the most accepted explanations for  
20 the biochemical process that causes Excited Delirium  
21 involves catacholamines, correct?

22 A. Yes. Catacholamines, dopamine and a whole variety  
23 of hormones in the brain.

24 Q. Doctor, referring now to the Heston case, page  
25 126, line 19:

1           Question: And you attribute the surge of  
2           catacholamines to his struggle with the police,  
3           correct?

4           What was your answer?

5           A.   (Reading:) Well, it began before the struggles  
6           with the police. It began with whatever demons he was  
7           recognizing that was causing him to have Excited  
8           Delirium to begin with. I'm sure the struggle with the  
9           police may or may not have added to it. He may have  
10          already been at the maximum level of catacholamines by  
11          the time the police interacted with him. There is no  
12          way of knowing.

13          Q.   Doctor, it's your experience that people with  
14          Excited Delirium are intensely paranoid and violent  
15          even without encounters by police?

16          A.   Very frequently, that's true.

17          Q.   They smash glass, inflict lethal-size wounds to  
18          their upper extremities, jump into pools of water and  
19          drown, jump from one building to another, jump down  
20          stairs and rupture spleens. Those are all kinds of  
21          things that can happen to these people even without  
22          encounters by the police?

23          A.   Correct.

24          Q.   In fact, it's your opinion that police involvement  
25          prevents a person with Excited Delirium from

1 experiencing those adverse events?

2 A. Exactly.

3 Q. Now, Doctor, in all of your published articles,  
4 the suspect, or rather the decedent from Excited  
5 Delirium was already demonstrating behavior showing  
6 that he was in a state of Excited Delirium when the  
7 police arrived?

8 A. In my published articles, that's probably true.

9 Q. Doctor, if there's any doubt in your mind, I'll go  
10 through them with you.

11 A. No. No. I'm saying in my published articles  
12 that's probably true. I don't know -- I could have  
13 mentioned a case where that didn't happen, but I don't  
14 recall that.

15 As far as the usual scenario is that the police  
16 are called because of the abnormal behavior of an  
17 individual.

18 Q. Doctor, let's just turn to Tab 7, and we'll look  
19 at one of your published articles.

20 And I'm going to turn to page 30, Doctor. Page  
21 number 30.

22 A. Okay.

23 Q. And I've highlighted a sentence -- actually, two  
24 sentences. Do you see that?

25 A. Yes.

1 Q. Could you read those two sentences into the  
2 record.

3 A. (Reading:) Descriptions of the events that  
4 preceded death indicate that all victims showed clear  
5 evidence of Excited Delirium before encountering a law  
6 enforcement officer. Therefore, events that occurred  
7 in police custody are not involved at the onset of  
8 Excited Delirium.

9 Q. Thank you, Doctor. Now, in that article, you  
10 viewed the fact that all victims showed clear evidence  
11 of Excited Delirium before encountering a law  
12 enforcement officer as some logical evidence for the  
13 conclusion that the events that occurred in police  
14 custody were not involved in the onset of ED?

15 A. Right.

16 Q. You make no reference to any cases in which the  
17 events that occurred in police custody were involved in  
18 the onset of ED, do you?

19 A. Correct. 1995, that was true.

20 Q. Doctor, was it also true in 2009?

21 A. No. Because since then, I've seen cases in which  
22 a person -- everything was precipitated upon an  
23 encounter with the police. I've seen cases like that  
24 happen since --

25 Q. Doctor, so it was not true in 2009, is that what

1       you're saying?

2       A.    I'm not sure what the question was. I think the  
3       question was, basically, have I seen cases in which the  
4       person was not exhibiting signs and symptoms of  
5       Excited Delirium prior to the police encounter. The  
6       answer to that is, yes, I have seen that.

7       Q.    That wasn't the question, Doctor.

8       A.    Okay. I'm sorry. I misunderstood the question.

9       Q.    You said that in 1985, when the article was  
10      published, the data demonstrated that the onset of  
11      Excited Delirium occurred prior to the police  
12      encounter.

13      A.    In those cases we studied, yes.

14      Q.    And then I said to you was that also true in 2009.

15      A.    My answer would be no. We've seen cases other  
16      than that.

17      Q.    Now, in 2009, you, again, published in the learned  
18      literature, did you not?

19      A.    I don't recall.

20      Q.    If you'd turn to Tab 3. You are an author of that  
21      article, are you not, Doctor?

22      A.    Correct.

23      Q.    Page E-15 -- by the way, Doctor, this article  
24      reports on 90 cases, right?

25      A.    Correct.



1 Q. If you turn to page E-15, there's a paragraph that  
2 begins "Arrest circumstances." Do you see that?

3 A. Yes.

4 Q. Would you read that paragraph into the record.

5 A. Sure. (Reading:) Arrest circumstances and police  
6 force measures are shown in Table 2. Disturbance call  
7 encounters evidenced agitated behaviors including  
8 destruction of property, disorderly conduct,  
9 inappropriate disrobing, running wildly in and out of  
10 traffic on streets and kicking residents' doors, or the  
11 compulsion to break or bang on glass. Aggravated  
12 assaults on friends or family members and attempted  
13 breaking and entering are also reported. One subject  
14 in detention experienced hallucinations and flooded his  
15 cell after confinement. Attempts by correctional  
16 personnel to restrain a prisoner resulted in him  
17 violently resisting their attempts to control him  
18 followed by sudden death.

19 Q. Thank you. Now, disturbance call encounters, you  
20 understand, is a shorthand for a call made to the  
21 police reporting a disturbance?

22 A. Correct.

23 Q. If we look at the Table 2, the circumstances that  
24 led to the police encounter are broken out for all 90  
25 cases, correct?

1       A.    Correct.

2       Q.    And in every one of those circumstances, the  
3       individual was already demonstrating agitation at the  
4       point that the police intervened?

5       A.    No.   That's not what it says at all.

6       Q.    Okay.   Disturbance call.

7       A.    Could be destroying property.   Could be destroying  
8       signs.

9       Q.    Okay.   And Doctor, destroying signs and destroying  
10      property, you understand can be a sign or symptom of  
11      Excited Delirium?

12      A.    Or not.

13      Q.    I'm sorry.   Could you answer my question?

14      A.    Can be a sign?   Sure, it can be.

15      Q.    Okay.   And the statement is made that the  
16      disturbance call encounters evidenced agitated  
17      behaviors?

18      A.    Correct.

19      Q.    Including destruction of property?

20      A.    Correct.

21      Q.    So the article is referencing destruction of  
22      property as an agitated behavior?

23      A.    Okay.

24      Q.    Correct?

25      A.    Correct.

1 Q. All of the examples of the disturbance calls are  
2 given as agitated behaviors in your article in the  
3 medical literature.

4 A. It's actually Dr. Mash's article. I was a  
5 co-author, yes.

6 Q. Doctor, do you stand by this article?

7 A. Of course.

8 Q. So is the answer yes, that all of the incidents  
9 that involved a disturbance call involved agitated  
10 behaviors?

11 A. Of the cases reported in this article, yes.

12 Q. And then we have aggravated assaults, and the list  
13 goes on, Doctor, all of these under incident  
14 circumstances are agitated behaviors that occurred  
15 prior to the police encounter?

16 A. Correct.

17 Q. For 2009?

18 A. Correct.

19 Q. And in 2009, you still had not seen fit to publish  
20 in the literature any examples of Excited Delirium  
21 where the agitation was precipitated by the police  
22 encounter?

23 A. Never occurred to me to do that, no.

24 Q. Whether it occurred to you or not, the fact is  
25 that you didn't?

1       A.    Correct.

2       Q.    Now, you acknowledge that to have delirium for  
3       purposes of Excited Delirium, the suspect must  
4       experience a significant change from a previous level  
5       of functioning?

6       A.    Correct.

7       Q.    Therefore, normal behavior for an individual does  
8       not constitute delirium?

9       A.    Correct.

10      Q.    Normal behavior of a chronic schizophrenic does  
11      not constitute Excited Delirium?

12      A.    Correct.

13      Q.    You understand that chronic schizophrenics  
14      normally or rather frequently and within the range of  
15      normal for their disease react differently when they  
16      interact with the police than people who are not  
17      schizophrenic?

18      A.    I would imagine that's true, but I'm not a  
19      psychiatrist. I don't have any firsthand knowledge of  
20      that.

21      Q.    So you don't know whether it's normal for a  
22      chronic schizophrenic to have difficulty following  
23      police commands?

24      A.    You would have to ask a police officer that or a  
25      psychiatrist that. I don't know.

1 Q. Nor do you know whether it's normal for a chronic  
2 schizophrenic to have diminished speech?

3 A. They can, obviously, but I don't know that's true  
4 of all schizophrenics.

5 Q. Do you know whether one of the features of chronic  
6 schizophrenia is marked poverty of speech?

7 A. No, I don't know that. I thought it was chronic.  
8 I know that's one of the criteria that's used in  
9 diagnosis. I don't know that's always constant with a  
10 person who has a diagnosis of schizophrenia. Again,  
11 I'm not a psychiatrist.

12 Q. I didn't ask whether it's always present. I said  
13 one of the criteria or rather one of the signs or  
14 symptoms associated with chronic schizophrenia is  
15 marked poverty of speech.

16 A. Schizophrenia, acute or chronic, I don't know. I  
17 know that's one of the symptoms of it, yes, or one of  
18 the signs of it.

19 Q. Do you know whether saying something immature to  
20 the police like "You're not the boss of me" is typical  
21 for a chronic schizophrenic?

22 A. I have no idea.

23 Q. Do you whether saying "I love you guys" is typical  
24 for a chronic schizophrenic?

25 A. I have no idea. I'm not a psychiatrist.

1 Q. Do you know whether a schizophrenic walking away  
2 from the police in a tense situation is typical or  
3 normal for chronic schizophrenia?

4 A. No idea.

5 Q. Is panicking and resisting the police when they  
6 act aggressively typical for a chronic schizophrenic?

7 A. Again, I'm not a psychiatrist. I don't know.

8 Q. You don't know whether the behaviors that  
9 Mr. Jackson demonstrated were typical for a chronic  
10 schizophrenic, correct?

11 A. At the time of the encounters that I read and so  
12 forth, they would not be typical for a schizophrenic,  
13 but it's typical for Excited Delirium.

14 Q. No, no. Doctor, if you could just focus on my  
15 question.

16 You do not know whether Mr. Jackson's walking  
17 away from the police was typical for a chronic  
18 schizophrenic?

19 A. That's correct.

20 Q. Nor whether his statements "You're not the boss of  
21 me" or "I love you guys" was typical for a chronic  
22 schizophrenic, correct?

23 A. Again, I'm not a psychiatrist. I don't know.

24 Q. Okay. Nor do you know whether his panicking and  
25 resisting the police was typical for a chronic

1       schizophrenic?

2       A.    No idea.

3       Q.    Now, one thing that causes someone to show  
4       enormous strength is if they are fighting for their  
5       lives?

6       A.    Possible, yes.

7       Q.    Or for the life of someone dear to them?

8       A.    Correct.

9       Q.    We all know the stories of mothers picking up  
10      automobiles?

11      A.    Right.

12      Q.    In this case, two officers, Lukowicz and Kelley,  
13      were able to restrain Mr. Jackson and put the cuffs on  
14      him, correct?

15      A.    It's my understanding it took five officers to  
16      restrain him and put the cuffs on him.

17      Q.    And that's part of your opinion in this case?

18      A.    That's part of what I read, yes.

19      Q.    And that's part of your opinion that he exhibited  
20      extraordinary strength? That's one of the reasons?

21      A.    Right. Right.

22      Q.    Okay. But the fact is, Doctor, and I suggest to  
23      you that it's clear in the records, that by the time  
24      the next three officers arrived, he was already down on  
25      the ground and had the cuffs on him. You didn't

1 realize that, did you?

2 A. No, I did not.

3 Q. Now, you don't know whether Mr. Jackson's act of  
4 swatting at Officer Kelley was typical for a chronic  
5 schizophrenic?

6 A. True.

7 Q. You don't know whether Mr. Jackson's failure to  
8 give in when he was pepper sprayed or hit in his legs  
9 with a baton was consistent for a chronic schizophrenic  
10 fighting in fear for his life?

11 A. That I would find very hard to believe. In my  
12 opinion, that is not typical. We're talking about  
13 physiologic responses here and unless -- and this is  
14 typical again for people who are totally impervious to  
15 pain, this is typical for Excited Delirium. I have not  
16 encountered that with any schizophrenics that had  
17 sudden death or anything else with that. It's not  
18 anything I've ever encountered.

19 Q. So it's your experience that pepper spray disables  
20 a suspect in all cases even if the suspect is fighting  
21 for his life and for him it's a matter of life and  
22 death?

23 A. As far as I know, that's what happens.

24 Q. In all cases?

25 A. I don't know about all cases. It certainly



1 doesn't happen in Excited Delirium.

2 Q. Okay. But what I'm saying is in an individual who  
3 generally believes he's in a fight for life and death,  
4 you don't know whether in all such cases pepper spray  
5 will disable him, correct?

6 A. That's true.

7 Q. Nor do you know whether baton strikes to the leg  
8 will disable him?

9 A. Correct.

10 Q. Doctor, it's your opinion that at the time that  
11 the police first pulled into the back lot of Joyal's  
12 Liquors and shone their light on Mr. Jackson, he  
13 already, in some sense, was experiencing Excited  
14 Delirium?

15 A. I can't say that in the case of Mr. Jackson, no.

16 Q. Okay. So it's not your opinion in this case that  
17 he was already in Excited Delirium at that point?

18 A. I don't know if he was or not.

19 Q. Okay. So the only evidence you have for behavior  
20 indicating Excited Delirium is his behavior in the  
21 interaction with the police?

22 A. Correct.

23 MR. SHEEHAN: Nothing further.

24 THE COURT: All right. Thank you. Do you think  
25 you'll have a redirect?

1 MR. CLIFFORD: Your Honor, I just have a couple  
2 of questions, just to clear things up, yes.

3 THE COURT: How many do you think?

4 MR. CLIFFORD: It shouldn't take very long. No  
5 longer than five to ten minutes, your Honor.

6 THE COURT: My problem is -- let's go off the  
7 record.

8 (Discussion off the record.)

9 **REDIRECT EXAMINATION BY MR. CLIFFORD**

10 Q. Doctor, I just want to review just a couple of  
11 things. What did you rely on in making your  
12 determination that Excited Delirium was present in this  
13 case?

14 A. Basically, the behavior, inappropriate actions  
15 with the police, the unintelligible sounds,  
16 inappropriate remarks, being impervious to pain  
17 compliance techniques and the subject having to be  
18 restrained. Those are the main criteria.

19 Q. And when it comes to the issue of the ventricular  
20 fibrillation versus the asystole, as we know it and the  
21 data that you reviewed indicated that he was in  
22 asystole at the time the medics arrived?

23 A. Correct.

24 Q. Correct me if I'm wrong, would it be fair to say  
25 that any evidence of ventricular fibrillation would be

1       speculative?

2       A.     Correct.

3             MR. CLIFFORD: I have nothing more, your Honor.

4             THE COURT: Any follow-up on that?

5             MR. SHEEHAN: No, your Honor.

6             THE COURT: All right. I just have one or two  
7       very quick -- hopefully, very quick questions.

8             You mentioned that you disagreed with one of the  
9       authors that the diagnosis of Excited Delirium was a  
10      diagnosis of exclusion. I'd like you just to expand on  
11      that a bit.

12            THE WITNESS: When we say diagnosis of  
13      exclusion, it means you've ruled out absolutely  
14      everything else and, therefore, it has to be asphyxia,  
15      it has to be Excited Delirium or something that does  
16      not leave any markers at the time of the autopsy.

17            What I'm saying is that it is not a diagnosis of  
18      exclusion. It's a diagnosis based on the behavior of  
19      the individual and the investigation of the entire  
20      case. Like asphyxia is sometimes referred to as a  
21      diagnosis of exclusion because if I put a plastic bag  
22      over somebody's head and then take it off, you won't  
23      find any markers at autopsy, but you cannot make a  
24      diagnosis of asphyxia unless your investigation shows  
25      that in the presence of a negative autopsy or other

1 evidence to indicate there was asphyxia.

2 In the case of Excited Delirium, just because a  
3 person is acting in a bizarre fashion and drops dead on  
4 you does not necessarily mean Excited Delirium. There  
5 could be other factors involved such that involves the  
6 investigation. Excited Delirium, the diagnosis of it  
7 is based on the behavior of the individual. As  
8 Mr. Sheehan pointed out, you must have delirium and you  
9 must have agitation. Those are the two basic things,  
10 everything else fits into it.

11 The diagnosis of exclusion simply means that you  
12 have a negative autopsy with nothing else to explain  
13 the death. A person can have Excited Delirium and die  
14 from trauma. You can have Excited Delirium and die  
15 from a ruptured aneurysm in the brain, for example. So  
16 that would mean that you don't have any of these  
17 things, then the diagnosis of Excited Delirium in that  
18 sense becomes a diagnosis of exclusion.

19 THE COURT: The differential diagnosis process  
20 is generally a process of exclusion, isn't it?

21 THE WITNESS: Yes. In clinical medicine and  
22 even in forensic pathology, you make a list of all the  
23 possible causes of say, in this case, of death of the  
24 individual and then you rule them in or rule them out  
25 based upon further investigation and testing.

1           THE COURT: And again, I don't want to put words  
2 in your mouth either, but I suppose, is it possible  
3 that when one excludes other causes of death, you are  
4 reduced down to several possible causes of death, and  
5 then it's a question of probability that one is the  
6 cause as opposed to another?

7           THE WITNESS: No. It's not a matter of  
8 probability. It's a matter of having sufficient  
9 evidence to show that this is the likely cause of death  
10 or varied degrees of assurances from reasonable medical  
11 certainty to probability. But if you cannot make a  
12 determination of say three different things, then you  
13 leave the cause of death as undetermined.

14          THE COURT: But here we have various medical  
15 professionals opining that the cause of death is  
16 several different --

17          THE WITNESS: Right. He either dies from  
18 Excited Delirium with heart disease or he dies from  
19 heart disease with Excited Delirium. That's the  
20 differential diagnosis in this case.

21          THE COURT: All right. I think that covers it  
22 very well. Thank you.

23          MR. SHEEHAN: Just one question, your Honor.

24          THE COURT: One question.  
25

**RE CROSS-EXAMINATION BY MR. SHEEHAN**

Q. So, Doctor, ultimately, your opinion in this case is that either Mr. Jackson died from heart disease with Excited Delirium or died from Excited Delirium with heart disease?

A. Correct.

Q. And you can't say which one it was?

A. No. To me, with a reasonable medical certainty, he died from Excited Delirium with heart disease.

Q. You just said that if you can't rule out which one it is, you should put down that cause of death is undetermined?

A. Right.

Q. You can't rule out in this case that it was heart disease with Excited Delirium?

A. I disagree. In my opinion, the preponderance of the evidence is that he died from Excited Delirium.

Q. How can you rule out heart disease?

A. Because he had Excited Delirium, he died very typically with his cardiac arrest being after he was restrained and his initial rhythm was asystole.

THE COURT: Okay. We're not going to go back over everything. I think I've got what I need.

MR. SHEEHAN: Thank you.

THE COURT: Thank you. Doctor, you can step

1 down. Thank you very much.

2 I'm going to take this under advisement. I'll  
3 give you my ruling, which I think I will -- I don't  
4 need a lot of time to do that, but I just can't do it  
5 from the bench right now. Okay?

6 So you'll hear from me very shortly on that, and  
7 then we'll go from there.

8 We can go off the record now.

9 (Discussion off the record.)

10 (Court concluded at 11:55 a.m.)

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C E R T I F I C A T I O N

I, Anne M. Clayton, RPR, do hereby certify  
that the foregoing pages are a true and accurate  
transcription of my stenographic notes in the  
above-entitled case.

/s/ Anne M. Clayton

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Anne M. Clayton, RPR

July 1, 2011

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Date